Supplementary Table 1. Evolution of the Electrophysiological Properties During Adult Neuronal Maturation.

	Class 1	Class 2	Class 3	Class 4	Class 5	Mature granule cells
R_m (GΩ)	2.02 ± 0.21 (21) **ns, ns, *, ******	1.99 ± 0.22 (23) **ns, ns, *****	1.70 ± 0.14 (28) **ns, ******	1.46 ± 0.15 (29) ****	0.86 ± 0.08 (33)	0.8 ± 0.16 (8) **ns**
C_m (pF)	6.2 ± 0.5 (21) ******, ****, ****, ******	9.6 ± 0.6 (23) ***, ****, ******	11.3 ± 0.5 (28) ***, ******	13.4 ± 0.7 (29) *	15.9 ± 0.8 (33)	13.8 ± 1.1 (8) **ns**
V_{rest} (mV)	-37 ± 2.6 (26) ***, **, ***, ******	-46 ± 2.7 (23) **ns, ns, *****	-48.3 ± 2.1 (16) **ns, ****	-52.2 ± 2.2 (27) *	-61.2 ± 2.8 (18)	-65.9 ± 2.8 (7) **ns**
% of spiking neurons	0 (27)	0 (31)	0 (29)	22.6 (31)	88.2 (34)	100 (9)
% of expressing Na curr	0 (27)	6.9 (31)	37.9 (29)	80 (31)	100 (34)	100 (9)
Amp of Na curr (pA)	0 (27)	20 (1)	43.8 ± 3.2 (8)	296.1± 63.3 (23)	1011 ± 44.3 (31)	nd
% $GABA_AR$	73.3 (15)	88.9 (9)	100 (30)	100 (30)	100 (34)	100 (8)
GABA curr amp (pA)	56.6 ± 21.7 (8)	240 ± 100.9 (8)	217 ± 57.8 (3)	400 (1)	nd	nd
% AMPAR	28.6 (14)	70.6 (17)	73.7 (19)	100 (25)	100 (28)	100 (8)
AMPA curr amp (pA)	27.5 ± 8.3 (4)	54.3 ± 20.3 (12)	79.1 ± 14.7 (12)	92 ± 15.9 (5)	110 ± 26.5 (3)	nd
% NMDAR	0 (11)	50 (14)	68.8 (16)	91.7 (12)	100 (5)	nd
NMDA curr amp (pA)	0 (11)	73.9 ± 15 (7)	121.7 ± 15 (9)	116.4 ± 17.3 (7)	178 ± 29.1 (5)	nd
% of sIPSCs	0 (26)	0 (30)	79.3 (29)	96.8 (31)	100 (34)	100 (7)
% of sEPSCs	0 (26)	0 (27)	35.7 (28)	76.7 (30)	94.1 (34)	100 (7)
sIPSC frequency (Hz)	-	-	0.15 ± 0.05 (19)	0.24 ± 0.08 (25)	0.66 ± 0.15 (34)	0.49 ± 0.09 (7) **ns**
sEPSC frequency (Hz)	-	-	0.65 ± 02 (9)	1.96 ± 0.67 (18)	3.02 ± 0.54 (26)	4.75 ± 0.43 (7) **ns**
sIPSC amplitude (pA)	-	-	40.4 ± 5.4 (17)	45.5 ± 3.9 (25)	53 ± 6 (34)	57.4 ± 8.4 (7) **ns**
sEPSC amplitude (pA)	-	-	7.1 ± 0.6 (9)	12.1 ± 0.9 (18)	13.1 ± 1.4 (26)	12 ± 1.8 (7) **ns**
sIPSC decay time (ms)	-	-	19 ± 2 (17)	25 ± 2.1 (25)	16.8 ± 7.1 (34)	17.7 ± 2.6 (7) **ns**
sEPSC decay time (ms)	-	-	3.3 ± 0.5 (9)	3.1 ± 0.3 (18)	3.6 ± 0.33 (26)	5.2 ± 0.8 (7) **ns**

Statistical comparisons between groups were done with the non-parametric Mann-Whitney U-test. For each class, the statistical values represent comparisons between consecutive groups. For example, regarding R_m of class 1 neurons: ns, ns, *, **** = comparison between classes 1 and 2: ns, 1 and 3: ns, 1 and 4: $p < 0.05$, 1 and 5: $p < 0.0001$. Abbreviations used: ns: not significant; * : $p<0.05$; ** : $p < 0.01$; *** : $p < 0.001$; **** : $p < 0.0001$; nd: not determined. For comparison between mature GCs and class 5 neurons, the Kolmogorov-Smirnov test was used for PSC frequency, amplitude and decay time. AMPA and $GABA_A$ current amplitudes were determined at –60 mV and NMDA current amplitudes at +60 mV. The Na^+ current amplitude was measured with a 30 mV depolarization from –60 mV.